SQL Cheat Sheet: Accessing Databases using Python

SQLite

Topic	Syntax	Description	Example
connect()	sqliteS.commet()	Create a new database and open a database connection to allow sqite? to work with it. Call sqitte3.connect() to create a connection to the database INSTRUCTOR.db in the current working directory, implicitly creating it if it does not exist.	import valided con = sqlidel.connect("INTELCTOR.db")
cursor()	con.cursor()	To execute SQL statements and fetch results from SQL queries, use a database cursor. Call con.cursor() to create the Cursor.	cursor_db; = con.cursor()
execute()	cursor_obj.execute()	The owners method in Python's SQL its library allows to perform SQL commands, including retrieving data from a table using a query like "Select * from table_name." When you execute this command, the result is obtained as a collection of table data stored in an object, typically in the form of a list of lists.	cursor_dbj.execote('''insert into INSTRUCTOR values (1, 'Rav', 'Ahuja', 'TORDNTO', 'CA')''')
fetchall()	cursor_obj.fetchall()	The feetchall() method in Python retrieves all the rows from the result set of a query and presents them as a list of tuples.	statement = '''SELECT ' MEDI EXTRECTOR'' corie; #0.5 - secort(s(tatement)) corie; #0.5 - secore #0.5 (ctall()) corie; #0.5 - secore #0.5 (ctall()) corie; #0.5 - secore #0.5 (ctall()) print(cor_stall) print(cor_stall)
fetchmany()	cursor_obj.fetchway()	The fertenary() method retrieves the subsequent group of rows from the result set of a query rather than just a single row. To fetch a few rows from the table, use fetchmany(numbersofrows) and mention how many rows you want to fetch.	statement = ""SELECT * HODN INCIDENCE." crising 3-seconte(statement) output_mays = core_m_d).stctobasey(2) for company = core_m_d).stctobasey(2) paint (core_m_d).stctobase_may) paint (core_m_d).stctobase_may)
read_sql_query()	read_sql_query()	read_sel_geory() is a function provided by the Pandas library in Python, and it is not specific to MySQL. It is a generic function used for executing SQL queries on various database systems, including MySQL, and retrieving the results as a Pandas DataFrame.	df = pd.read_sql_query("select * from instructor;", com)
shape	datafrane, shape	It provides a tuple indicating the shape of a DataFrame or Series, represented as (number of rows, number of columns).	df.shape
close()	con.close()	con. close() is a method used to close the connection to a MySQL database. When called, it terminates the connection, releasing any associated resources and ensuring the connection is no longer active. This is important for managing database connections efficiently and preventing resource leaks in your MySQL database interactions.	con.close()
CREATE TABLE	CHAIT TABLE table_name (columni detatype constraints, columni detatype constraints,);	The OEATH TABLE statement is used to define and create a new table within a database. It specifies the table's name, the structure of its columns (including data types and constraints), and any additional properties such as indexes. This statement essentially sets up the blooprist for organizing and storing data in a structured format within the database.	CHART NAME INTERMATIONS_THURST_IST_XCOMES { dev- country NATURAL(A), chr- ist_max.ext_
barplot()	sasbom.barplot(re"a-axis_variable", ye"y-axis_variable", data-data)	seatoren-hamplor() is a function in the Scaborn Python data visualization library used to create a bar plot, also known as a bar chart. It is particularly used to display the relationship between a categorical variable and a numeric variable by showing the average value for each category:	import seaborn seaborn seaborn.harplot(s="feet_score",y="frequency", data-dataframe)
read_esv()	df * pd.read_cov('file_path.cov')	read_cvv() is a function in Pythor's Pandas library used for reading data from a Comma-Separated Values (CSV) file and loading it into a Pandas DataFanne. It's a common method for working with tabular data stored in CSV format	isport pandas di = pandas.read_cov("https://data.citysfchicago.org/resource/jcsq-kbrf.cov")
to_sql()	df.tm_mil('table_name', inderfalse)	ef. vo., vs.(1) is a method in Pandas, a Python data manipulation library used to write the contents of a DataFrame to a SQL database. It allows to take data from a DataFrame and store it structurally writin a SQL database table.	Import pendia of a positive (see "1945) // heta. simpfoisings. org/resource/(see And.see") of a positive (see "1945) // heta. simpfoisings. org/resource/(see And.see") of the angle "change and innocembed, data", con. If _exists-"replace", independ also, which "multi") of the angle "change and innocembed, data", con. If _exists-"replace", independ also, which "multi")
read_sql()	df = pd.read_sql(sql_query, com)	read_sql() is a function provided by the Pandasi library in Python for executing SQL queries and retrieving the results into a DataFrame from an SQL database. It's a convenient way to integrate SQL database interactions into your data analysis workflows.	salactpary = "salact * from DIGIECTO" of = pandas.read_sql(slactpary.com)

Topic	Syntax	Description	Example
cormecs()	com = lim_dh.comext("MERBOIT-diraws; POIT-functions; POIT-func	line, th. connect() is a Python function provided by the line di Shury, which is used for establishing a connection to an HIM DR2 or HIM DR2 Warehouse database. It's commonly used in applications that need to interact with HIM DR2 databases from Python.	Depth St. (d). Com - Sha (d). Com - Sha (d). COMPANIES (C). COMPANIES (C). COMPANIES (C). COMPANIES (C). (T). COMPANIES (C). (T).
server_info()	Dim_db.server_infe()	lin_th.server_info(coso) is a Python function provided by the tin_th library, which is used to retrieve information about the IBM Di2 server to which you are connected.	Service - Line dis, Service - Line (Line) print ("Des (Line) - Service - DES (Line) print ("Des (Line) - Service - DES (Line) print ("Des (Line) - Service - DES (Line))
close()	con.close()	con. closs() is a method used to close the connection to a db2 database. When called, it terminates the connection, releasing any associated resources and ensuring the connection is no longer active. This is important for managing database connections efficiently and preventing resource leaks in your db2 database interactions.	con.close()
exec_immediate()	sql_statement = "400 statement goes bere" seit = lim_db.cenc_imendiate(com, sql_statement)	line, donere_investiner() is a Python function provided by the him, db library, which is used to execute an SQL statement immediately without the need to prepare or bind it. If s commonly used for executing SQL statements that don't require input parameters or don't need to be prepared in advance.	# Lets first drug the table INCTRICTON in case it exists from a previous attempt. drugslow; " drug table INCTRICTON" Application is the proceeding of the processing of the p

Author(s)



